

Analytical Data Sheet

Lot number **1058968**
not for drug use

Catalog number **B-2700.0001**
Product number **4026268.0001**
Product **Fmoc- L- threoninol**
Molecular formula $C_{19}H_{21}NO_4$
Relative molecular mass 327.38

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -2.2^\circ$ (1% in methanol)
Purity (HPLC)	99.1% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Thr-OH < 0.1% Fmoc- β -Ala-OH
Purity (TLC)	$\geq 99\%$
Related impurities (TLC)	< 0.1% H-Thr-OH < 0.1% H-Thr-OI
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol 9/1 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	> 99.7% L-Threoninol < 0.1% D-Threoninol < 0.1% L-allo-Threoninol < 0.1% D-allo-Threoninol
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	0.004%
Residual organic solvents (GC)	0.15% methyl-tetrahydrofuran 0.02% ethanol not det. acetonitrile not det. 2-butanol 0.50% toluene 0.07% isopropylether

not det. methylenchloride

General comment

Assay:

100% - water content - residual organic solvents

100% - 0.3% - (0.15% + 0.02% + 0.5% + 0.07%)=99.0%

Latest update: April 24, 2015

Analytical Data Sheet
Lot number **1058968**